

# Certificate of Quality

## Asbestos PCM & TEM Sampling Cassettes

**TEM LOT # 20090629**

OSHA Method ID-160 & NIOSH Method 7400  
(Phase Contrast Microscopy = PCM)  
or NIOSH Method 7402  
(Transmission Electron Microscopy = TEM)

- Clear with Acetone & Triacetin - Method 7400 (Quickfix)
  - o Filter materials Clear with smooth (non-grainy) background for accurate analysis.
  - o Time to Clear (seconds) < 5 Seconds
- Background Fibers PCM NA and/or TEM None Detected
  - o Up to 4 fibers per 100 fields (ID-160) or
  - o Up to 5 fibers per 100 fields (NIOSH 7400 & NIOSH 7402)
- Conductive polymers (cowl) Per Resin Manufacturer
- Specify a consistent effective collection area of 385 +/- 5 mm<sup>2</sup>
  - o (21.998 mm < diameter > 22.283 mm collection area)
  - o Diameter AVG(100) = 22.12 = 384.42 mm<sup>2</sup>
- Leak Free Cassettes

	Open LPM	Inlet/Cowl/Outlet (AVG) LPM
o Rotary Vane	<u>34.20</u>	<u>14.53</u>
o Diaphragm	<u>26.73</u>	<u>12.43</u>
o Megalite	<u>35.75</u>	<u>9.02</u>

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Approved:

James R. Tucker

Date: 06/29/2009

James R. Tucker, Ph.D.  
EMS COO & VP Technology



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